



NEW SEARCH FUNCTIONS

Find material properties
by combining search criteria: material systems + keywords

MSI Eureka is a one-stop platform that offers everything related to materials constitution: from exhaustive bibliography to high-quality evaluated phase diagrams.

Materials constitution describes phase relations, crystal structures, thermodynamics ... and more in a material system.

The NEW search interface brings together journal articles with material systems and many other sources of information, including conference proceedings, books, theses, case studies, reference handbooks and databases.

The NEW search interface is integral part of MSI Eureka and free of charge for existing customers.

Go To: <http://www.msi-eureka.com/search>

The screenshot displays the MSI Eureka search interface. At the top right, the logo reads "MSI EUREKA NEW SEARCH" with a red "new" ribbon. The main search area is titled "Comprehensive Materials World Literature Search" and includes a "Select Material Systems" section with a periodic table. A callout bubble points to the selection mode options: "As selected + any other element", "As selected + subsystems", and "As selected". Another callout bubble points to the periodic table, indicating "select elements in the Periodic Table". Below the periodic table is a "Select Keywords" section with a text input field containing "Crystal Structure AND Mechanical Properties" and a "Clear Keywords" button. A third callout bubble points to this input field, stating "add keywords to your selection". On the right side, the "Search Results" panel shows a search query: "material systems: Al-Mg-Si AND keywords: Crystal Structure AND Mechanical Properties". It displays "Total results: 179" and a green "View Results >" button. Below this, a list of result categories is shown with counts: MSIT Evaluations (3), MSIT Data Compilations (0), Phase Diagrams and Figures (48), Matching Material Systems (1), and Related Material Systems (200).

Stage 2 of the new search interface will be available early 2018, providing search through thousands of terms, properties, etc.



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71,232 systems with 448,933* bibliographic citations link material systems and all their publications, for each individual system!

The bibliographic data base covers practically all relevant publications from 1830 up to the present, providing a valuable and constantly growing information source.

* as of July 2017, continuously updated

The screenshot shows the MSI Eureka search results page. Callouts highlight the following features:

- refine results by** - type of publication, - system, - year
- get list of similar materials** (points to the 'Refine material systems' section)
- sort results by** - year, - author, - source
- print or export search results** (points to 'Export Ris' and 'Print version' buttons)
- open full-text MSIT documents** (points to a document entry)
- read full abstract** (points to the abstract text of a selected document)

Advantages of Literature Search in MSI Eureka

MSI Eureka

- ▶ intuitive search interface
- ▶ finds **only relevant** information
- ▶ publications since 1830 completely covered
- ▶ finds materials related to your search

search

relevance

completeness

value added info

Other sources

- ▶ long complicated search phrases
- ▶ many irrelevant hits need manual sorting out
- ▶ publications before 1960 poorly covered
- ▶ no cross-analytics for similar materials

MSI Eureka is the most comprehensive database of the world's scholar publications on materials & their properties.

Relevant for:

- Engineering
- Materials Science
- Crystallography
- Thermodynamics
- Crystal growth
- Materials design
- Alloy development
- Chemistry
- Physics
- Industrial engineering across multiple industries
- others

On alloys

(steels, bronzes, magnets, implants, electronic materials,...)

On non-metals

(ceramics, semiconductors, sensors, ...)

On composites

(cermets, ...)

MSI EUREKA is

a one-stop resource for materials chemistry:

- ▶ phase diagram information; thermodynamics & kinetics
- ▶ crystal structure data; materials properties
- ▶ ideal resource for Calphad modelling

MSI EUREKA includes

**Materials World Library:
(bibliographic database on materials constitution)**

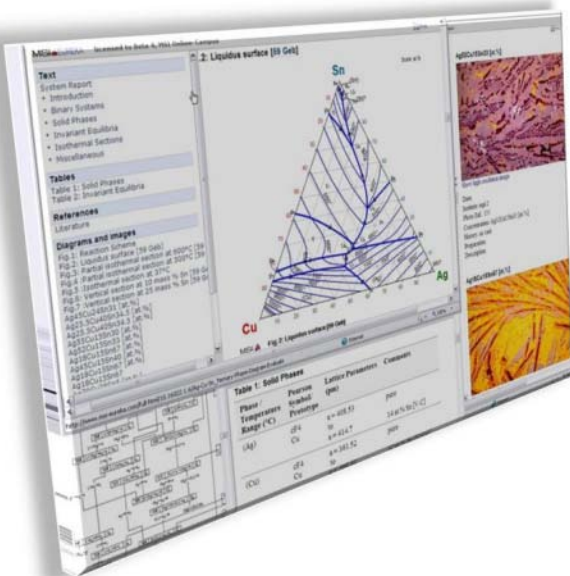
- ▶ all materials cross-linked with relevant publications
- ▶ **448,933** bibliographic entries on all inorganic materials ever published, related to
- ▶ **71,232** material systems
- ▶ and continuously updated

MSI EUREKA includes

**MSIT Documents:
(full-text factual database on materials constitution)**

- ▶ **4,009** critically evaluated ternary systems
- ▶ **254** critically evaluated binary systems
- ▶ **188** evaluated pressure dependent binary diagrams, p-T-x
- ▶ **4,288** extended extracts from literature
- ▶ **14,550** phase diagrams and graphs
- ▶ and continuously updated

About us



The Authoring Team that creates MSI Eureka

MSIT, a global network of experts, cooperates for over 32 years, structured regionally, operating globally (MSIT Russia, MSIT China, MSIT Europe, others). More than 270 scientists compile and evaluate data, generate missing data, create phase diagrams and describe the materials constitution, in MSI Eureka. They

- monitor all relevant publications
- evaluate data on binary & ternary material systems
- published more than 56 reference books, edited by MSIT



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Features

The only source offering information for ALL inorganic material systems ever studied, 71,232 element combinations

The largest bibliographic database on materials constitution, 448,933 entries, from 1830 - present

Largest number of evaluated material systems, more than 4,450 evaluated systems

Monitors unary, binary, ternary and ...multi-component materials systems

Comprehensive and continuously updated

Fully searchable, interactive, intuitive and user friendly

MSI Eureka is unique by

Coverage

inorganic materials, all ever published
> 71,232 material systems, by July 2017

Extensive search possibilities

highly effective search engine

Unparalleled in depth and breadth at highest quality

unlike others, our evaluation reports are critically evaluated, and independently reviewed by experts

Affordability

flexible license scheme allowing annual subscriptions or perpetual use of data

Possibility to join MSIT

customers of MSI Eureka have first priority on registration to [MSIT Winter Schools](#) on phase equilibria

Benefits

- ▶ Find & navigate the world's collective knowledge with a few mouse clicks
 - fast and comprehensive!
 - by materials
 - by properties
 - by categories of added value
 - from 1830 till now
- ▶ Bring real-life examples into classroom teaching
- ▶ Save time and money
 - with expert evaluations in hand, identify key areas for experiments or computations.
 - saving energy, resources and time, leads to efficient research strategies.
- ▶ Supplement and accelerate genomic approach for materials design and Integrated Computational Materials Engineering

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